Day : Thursday
Date: 3/17/2005

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Continuity Information for 09/312351

Parent Data

09312351

Claims Priority from Provisional Application 60085764

Child Data

09779791 **is a continuation in part of** 09312351

09795607 **is a division of** 09312351

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Inventor Information for 09/312351

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Application Number Information

Application Number: **09/779791**
Assignments
Examiner Number: **77509 / WOITACH, JOSEPH**
Filing or 371(c) Date: **02/08/2001**
Group Art Unit: **1632**
IFW IMAGE
Effective Date: **02/08/2001**
Class/Subclass: **514/044.000**
Application Received: **02/09/2001**
Lost Case: **NO**
Pat. Num./Pub. Num: **/20050020518**
Interference Number:
Issue Date: **00/00/0000**
Unmatched Petition: **NO**
Date of Abandonment: **00/00/0000**
L&R Code: Secrecy Code:**1**
Attorney Docket Number: **Mirus.006.03**
Third Level Review: **NO**
Secrecy Order: **NO**
Status: **71 /RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER**
Status Date: **01/28/2005**
Confirmation Number: **6737**
Oral Hearing: **NO**
Title of Invention: **COMPOUND CONTAINING A LABILE DISULFIDE BOND**

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AMENDMENTS TO THE CLAIMS

In the claims, please amend claims 1, 2, 6 and 13 as follows:

1. (currently amended) ~~A compound for inserting into a mammal, comprising: the compound having a disulfide bond that is labile under mammalian physiologic conditions selected from the group consisting of (a) a disulfide bond that is cleaved more rapidly than oxidized glutathione and (b) a disulfide bond constructed from thiols in which one of the constituent thiols has a lower pKa than glutathione and wherein the compound contains a transduction signal.~~
   A compound for delivering a molecule from outside a mammalian cell to the cytoplasm of said mammalian cell comprising: said molecule covalently linked to a transduction signal via an activated disulfide bond that is cleaved more rapidly than oxidized glutathione wherein said transduction signal transports said molecule to the cytoplasm of said cell and cleavage of said disulfide bond in said cell enhances delivery of said molecule to the cytoplasm of said cell.

2. (currently amended) The compound of claim 1 wherein the transduction signal consists of ~~Tat~~ a peptide with sequence substantially identical to SEQ ID 1.

3. (original) The compound of claim 1 wherein the transduction signal consists of VP22.

4. (original) The compound of claim 1 wherein the transduction signal consists of ANTP.

5. (original) The compound of claim 1 wherein the transduction signal consists of a polymer containing a cationic charge.

6. (currently amended) The compound of claim 5 ~~claim 1~~ wherein the transduction signal consists of a peptide containing cationic residues.

7-12. (canceled)

13. (currently amended) The compound of claim 1 wherein ~~the compound~~ said molecule is associated with a nucleic acid.